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Docket No. ECV-5413CIP2CON1 NOV 0 9 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

5	In re application of: Carpentier, et al.	Group Art Unit: 3738
	Application No.: 10/729,035	Examiner: Hieu Phan
10	Filing Date: December 5, 2003))
	For: FLEXIBLE HEART VALVE AND ASSOCIATED CONNECTING BAND)))
15	Commissioner for Patents Washington, D.C. 20231	

TERMINAL DISCLAIMER UNDER 37 CFR §1.321(b)

20 Dear Sir:

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Petitioner, Edwards Lifesciences Corporation, a Delaware Corporation with its principal offices located at One Edwards Way, Irvine, in the County of Orange and State of California, represents that it is the assignee of the entire right, title and interest in and to the invention disclosed in the above-referenced U.S. Patent Application No. 10/729,035.

The above-referenced U.S. Patent Application No. 10/729,035 claims priority under 35 USC §120 back to U.S. Patent Application No. 09/847,930, filed May 3, 2001, now U.S. Patent No. 6,736,845, which is a continuation-in-part of U.S. Patent Application No. 09/332,759, filed June 14, 1999, now U.S. Patent No. 6,558,418.

All of the aforementioned patents and applications are commonly owned by Petitioner.

Petitioner represents that it is the assignee of the entire right, title and interest in and to the invention disclosed in U.S. Patent No. 6,736,845, and continuations thereof, by the following assignments/instruments:

Serial No.: 10/729,035

Docket No.: ECV-5413CIP2CON1

Terminal Disclaimer

Responsive to Office Action dated July 13, 2004

U.S. Patent No. 6,558,418 (S/N: 09/332,759 and all continuations thereof) was assigned from the inventors to Baxter International Inc. as shown by an Assignment recorded on September 20, 1999 at Reel 010245, Frame 0005, and was re-assigned from Baxter International Inc. to Edwards Lifesciences Corporation as shown by an Assignment recorded on June 9, 2000 at Reel 010901, Frame 0274 (recordation attached, see entry on page 4, docket No. ECV-5413).

U.S. Patent No. 6,736,845 was assigned from the inventors to Edwards Lifesciences Corporation as shown by an Assignment recorded on October 1, 2001 at Reel 012223, Frame 0170 (recordation attached).

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In accordance with 37 CFR 3.73, the undersigned certifies that the evidentiary documents with respect to ownership have been reviewed and that, to the best of the knowledge and belief of the undersigned, title is in the Petitioner seeking to take this action.

Petitioner hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the above-identified application which would extend beyond the expiration date of prior U.S. Patent No. 6,736,845, whichever expiration date comes earlier.

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Petitioner hereby agrees that any patent so granted on the above-identified application shall be enforceable only for and during such period that the legal title to said patent shall be the same as the legal title to prior U.S. Patent No. 6,736,845. This Agreement runs with any patent granted on the above-identified application and is binding upon the grantee, its successors or assigns.

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In making the above disclaimer, Petitioner does not disclaim the terminal part of any patent granted on the above-identified application that would extend to the expiration date of the Serial No.: 10/729,035

Docket No.: ECV-5413CIP2CON1

Terminal Disclaimer

Responsive to Office Action dated July 13, 2004

full statutory term as defined in 35 USC §§ 154 to 156 and 173 of prior U.S. Patent No. 6,736,845, as presently shortened by any terminal disclaimer, in the event that the prior U.S. Patent No. 6,736,845: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims cancelled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

FEE PAYMENT

Please charge the necessary fee under 37 CFR §1.20(d) to Deposit Account No. 50-1225 10 (ECV-5413CIP2CON1). A duplicate of this disclaimer is attached.

If there are any questions, please call the undersigned.

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Respectfully submitted,

Rajiv Yadav, Ph.D., Esq Registration No. 43,999

Edwards Lifesciences LLC

Law Department

One Edwards Way

Irvine, California 92614

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Customer No. 30452



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

AUGUST 30, 2000

PTAS

EDWARDS LIFESCIENCES LLC DEBRA D. CONDINO ONE EDWARDS WAY IRVINE, CALIFORNIA 92614



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF ACES THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/09/2000

REEL/FRAME: 010901/0274

NUMBER OF PAGES: 33

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BAXTER INTERNATIONAL INC.

DOC DATE: 06/09/2000

ASSIGNEE:

EDWARDS LIFESCIENCES CORPORATION ONE EDWARDS WAY

IRVINE, CALIFORNIA 92614

SERIAL NUMBER: 06712528 BE-3506 PATENT NUMBER:

FILING DATE: 03/18/1985

ISSUE DATE:

SERIAL NUMBER: 08584718 BE-4540 CON FILING DATE: 01/11/1996

ISSUE DATE:

PATENT NUMBER:

SERIAL NUMBER: 09472093 BE 5167 DIV

FILING DATE: 12/23/1999

PATENT NUMBER:

ISSUE DATE:

PATENT NUMBER:

SERIAL NUMBER: 09059125 BE- 518 FILING DATE: 04/13/1998

ISSUE DATE:

SERIAL NUMBER: 09075409 BE-5223 FILING DATE: 05/08/1998/ ISSUE DATE:

PATENT NUMBER:

FILING DATE: 07/28/1999 SERIAL NUMBER: 09362468 86-5467 ISSUE DATE:

PATENT NUMBER: FILING DATE: 09/03/1999~ SERIAL NUMBER: 09390381 BE- 5477

ISSUE DATE: PATENT NUMBER:

SERIAL NUMBER: 09429773 BE- 5507 FILING DATE: 10/28/1999 PATENT NUMBER: ISSUE DATE:

SERIAL NUMBER: 08559262 CVG-4938 FILING DATE: 11/15/1995

ISSUE DATE: ' PATENT NUMBER:

SERIAL NUMBER: 09108553 CVG - 5369 FILING DATE: 07/01/1998 ISSUE DATE: PATENT NUMBER:

CVG-5506 FILING DATE: 10/06/1999 L SERIAL NUMBER: 09413948 ISSUE DATE: PATENT NUMBER

SERIAL NUMBER: 07095416 ECL 3246RE PATENT NUMBER: RE33518 FILING DATE: 09/10/1987 ISSUE DATE: 01/15/1991 C

FILING DATE: 04/29/1983 SERIAL NUMBER: 06489927 PATENT NUMBER: D282284 ECC 3247 ISSUE DATE: 01/21/1986 \

SERIAL NUMBER: 06659134 FCC 3452 FILING DATE: 11/26/1982 ISSUE DATE: 02/17/1987 L

SERIAL NUMBER: 08475606 ECC 3572 CON FILING DATE: 06/07/1995 V ISSUE DATE: PATENT NUMBER:

FILING DATE: 05/12/1995 \ SERIAL NUMBER: 08440510 ECC 369 8 CDC PATENT NUMBER: ISSUE DATE:

FILING DATE: 10/01/1993. SERIAL NUMBER: 08130634 ECL 3913 CCP PATENT NUMBER: ISSUE DATE:

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SERIAL NUMBER: 08645391 ECC 4324 CDV 4 FILING DATE: 05/13/1996. ISSUE DATE: PATENT NUMBER:

SERIAL NUMBER: 08420503 ECC 4324 CDV & FILING DATE: 04/12/1995 ISSUE DATE: PATENT NUMBER:

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FILING DATE: 04/19/1993 SERIAL NIMBER: 08049231 ECC 4324 CON ISSUE DATE: PATENT NUMBER:

010901/0274 PAGE 3 SERIAL NUMBER: 09274802 ECC 4642 DIV FILING DATE: 03/23/1999 PATENT NUMBER: FILING DATE: 05/15/1995 SERIAL NUMBER: 08440624 FCC 4883 CAP ISSUE DATE: PATENT NUMBER: FILING DATE: 06/08/1999 SERIAL NUMBER: 09329002 FCC 5062CIP2 ISSUE DATE: PATENT NUMBER: FILING DATE: 10/02/1996 SERIAL NUMBER: 08725117 ECC 5063 ISSUE DATE: PATENT NUMBER: FILING DATE: 10/28/1999 SERIAL NUMBER: 09429221 ECC 5151 ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 09359927 ECC 5159 CON FILING DATE: 07/22/1999 PATENT NUMBER: FILING DATE: 08/17/1998 SERIAL NUMBER: 09135873 ECC 5378 ISSUE DATE: PATENT NUMBER: FILING DATE: 10/22/1998 SERIAL NUMBER: 09177416 ECC 5394 ISSUE DATE: PATENT NUMBER: FILING DATE: 11/24/1999 SERIAL NUMBER: 09450032 ECL 5527 PATENT NUMBER: ISSUE DATE: · FILING DATE: 12/07/1999 ~ SERIAL NUMBER: 09456049 ECC 5528 ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 09484555 ECC 5543 FILING DATE: 01/18/2000 U ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 09085944 ECC 3860 CDC 4 FILING DATE: 05/27/1998 ISSUE DATE: PATENT NUMBER: FILING DATE: 04/16/1999 SERIAL NUMBER: 09293215 ECV 4468 ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 08812506 ECV 4652 CON FILING DATE: 03/07/1997 ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 08764821 ECV 4652 DIV FILING DATE: 12/12/1996 ~ ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 09283596 ECV 4652 CIPDIV PATENT NUMBER: FILING DATE: 04/10/1999 ISSUE DATE:

FILING DATE: 07/29/1998 \

FILING DATE: 12/14/1999

ISSUE DATE:

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SERIAL NUMBER: 09124657 EV 4676 CIPCIP

SERIAL NUMBER: 09461304 ECV 4935 CO

PATENT NUMBER:

PATENT NUMBER:

SERIAL NUMBER: 09144010 ECV 4955 CON FILING DATE: 08/31/1998 ISSUE DATE: PATENT NUMBER: FILING DATE: 05/21/1998 SERIAL NUMBER: 09082848 ECV SOIL CON ISSUE DATE: PATENT NUMBER: FILING DATE: 03/09/1999 SERIAL NUMBER: 09264801 ECV 5060DIV ISSUE DATE: 08/15/2000 V FILING DATE: 12/0.9/1998 SERIAL NUMBER: 09207783 ECV SILS DIV ISSUE DATE: PATENT NUMBER: FILING DATE: 01/30/1998 V SERIAL NUMBER: 09016489 ECV 5143 ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 09016147 ECV 5221 FILING DATE: 01/30/1998~ ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 09468715 ECV 5283CIPDIV FILING DATE: 12/21/1999 ISSUE DATE: PATENT NUMBER: FILING DATE: 09/21/1998 SERIAL NUMBER: 09157546 ECV 5327 ISSUE DATE: PATENT NUMBER: FILING DATE: 09/14/1999 SERIAL NUMBER: 09396124 FCV 5326 ISSUE DATE: PATENT NUMBER: FILING DATE: 01/26/2000 SERIAL NUMBER: 09491957 ECV 5412 ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 09332759 ECV 5413 FILING DATE: 06/14/1999 ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 09491990 ECV 5413 CIP PATENT NUMBER: FILING DATE: 01/26/2000 ISSUE DATE: FILING DATE: 04/16/1999 SERIAL NUMBER: 09293214 ECV 54 6 ISSUE DATE: PATENT NUMBER: FILING DATE: 09/01/1999 SERIAL NUMBER: 09387468 ECV 5476 ISSUE DATE: PATENT NUMBER: FILING DATE: 01/25/2000 SERIAL NUMBER: 60178084 ECV 5587 ISSUE DATE: PATENT NUMBER: FILING DATE: 02/07/1994 SERIAL NUMBER: 08192894 NC 4582 ISSUE DATE: 08/15/2000 FILING DATE: 09/21/1998 -SERIAL NUMBER: 09157846 NC 4582 DIV2 ISSUE DATE: PATENT NUMBER: FILING DATE: 04/02/1999 \ SERIAL NUMBER: 09285933 NC 5409 PATENT NUMBER: ISSUE DATE:

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SERIAL NUMBER:	08612742 VAS 4736	FILING DATE: 03/08/1996 ISSUE DATE: 08/08/2000
SERIAL NUMBER:	09201953VAG 4761 CON	FILING DATE: 12/01/1998/ ISSUE DATE:
SERIAL NUMBER:	09306863 VAS 4778 CON 2	FILING DATE: 05/07/1999 / ISSUE DATE:
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SERIAL NUMBER: PATENT NUMBER:	09358350 VRS 5041 DIV.	FILING DATE: 07/21/1999 / ISSUE DATE:
SERIAL NUMBER: PATENT NUMBER:	09163831 VAS 5388	FILING DATE: 09/30/1998 ISSUE DATE: 06/06/2000
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SERIAL NUMBER: PATENT NUMBER:	09419315 VAS 5498	FILING DATE: 10/15/1999 / ISSUE DATE:
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	NUMBER: NUMBER:	06736767 4635467	B-3509	FILING DATE: 05/22/1985 ISSUE DATE: 01/13/1987
	NUMBER: NUMBER:	07056135 4902476	Be-3592CIP	FILING DATE: 05/29/1987 ISSUE DATE: 02/20/1990
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	NUMBER: NUMBER:	07260164 5120501	Ge · 3748	FILING DATE: 10/20/1988 ISSUE DATE: 06/09/1992
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	NUMBER:		B1-37 8 5 DYCH	FILING DATE: 09/15/1992 ISSUE DATE: 05/31/1994
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SÉRIAI PATENT	NUMBER:	07554759 5061236	BC-4022	FILING DATE: 07/16/1990 / ISSUE DATE: 10/29/1991
SERIAI PATENT	. NUMBER:	07906900 5270005	Be 4051 CNCP	FILING DATE: 06/29/1992 / ISSUE DATE: 12/14/1993
SERIA! PATENT	L NUMBER: NUMBER:	07609301 5166713	Be 4062	FILING DATE: 11/01/1990 ISSUE DATE: 02/16/1993
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SERIAL NUMBER: 08331292 & 4143 CON PATENT NUMBER: 5541167

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SERIAL NUMBER: 07958667 N 4341 PATENT NUMBER: 5266265

SERIAL NUMBER: 08094834 Bl - 4393 PATENT NUMBER: 5401255

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Be-4474CON SERIAL NUMBER: 08336964 PATENT NUMBER: 5501574

SERIAL NUMBER: 09029646 BR -4912 PATENT NUMBER: 6004511

SERIAL NUMBER: 08551256 BR-4932 PATENT NUMBER: 5770149

SERIAL NUMBER: 08697814 BX-5042 PATENT NUMBER: 5800721

SERIAL NUMBER: 08569098 AL-5123 PATENT NUMBER: 5746575

PATENT NUMBER: 5863179 By -5123 CM SERIAL NUMBER: 08963591

SERIAL NUMBER: 08938058 Be-5167 PATENT NUMBER: 6017493

SERIAL NUMBER: 08989316 By -518 2 PATENT NUMBER: 5989438 PATENT NUMBER: 5989438

SERIAL NUMBER: 06103401 (VG 25 98 PATENT NUMBER: 4388927

SERIAL NUMBER: 06195103 PATENT NUMBER: 4311573 CVG -264

SERIAL NUMBER: 06577300 CVG - 2447
PATENT NUMBER: 4595632

SERIAL NUMBER: 06427782 CVG -3272
PATENT NUMBER: 4557266 CVG -3272

SERIAL NUMBER: 06580119 CVG 3375

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Maria 2028/28/1994 ISSUE DATE: 07/30/1996

FILING DATE: 11/18/1993 ISSUE DATE: 05/23/1995

FILING DATE: 10/08/1992 ISSUE DATE: 11/30/1993 L

FILING DATE: 07/20/1993 ISSUE DATE: 03/28/1995\

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FILING DATE: 11/03/1997 ISSUE DATE: 01/26/1999

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FILING DATE: 12/13/1979 ISSUE DATE: 06/21/1983

FILING DATE: 10/08/1980 ISSUE DATE: 01/19/1982

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FILING DATE: 09/29/1982 ISSUE DATE: 12/10/1985

FILING DATE: 02/14/1984 ISSUE DATE: 05/20/1986 \

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	NUMBER: NUMBER:	06723912 4670009	ECC 3556	FILING DATE: 04/16/1985 ISSUE DATE: 06/02/1987	
	NUMBER: NUMBER:		ECC 1606	FILING DATE: 09/30/1985 ISSUE DATE: 03/10/1987	
	Number: Number:	07060666 4727884	ECT 1618 CON	FILING DATE: 06/10/1987 ISSUE DATE: 03/01/1988	
	NUMBER: NUMBER:	06868313 4664126	ECC 104 IV19 CIP3"	FILING DATE: 05/28/1986 ISSUE DATE: 05/12/1987	
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	NUMBER: NUMBER:	07000529 4712865	ECC 1747	FILING DATE: 01/05/1987 ISSUE DATE: 12/15/1987	
	NUMBER: NUMBER:	07000537 4714770	ECL 1748	FILING DATE: 01/05/1987 ISSUE DATE: 12/22/1987	
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	NUMBER: NUMBER:	06160750 4328806	ECC 25764	FILING DATE: 06/18/1980 ISSUE DATE: 05/11/1982	
	NUMBER: NUMBER:	06160600 4329993	ECC 25105	FILING DATE: 06/18/1980 // ISSUE DATE: 05/18/1982	
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		06301146 4407304	ECC 3036	FILING DATE: 09/11/1981 ISSUE DATE: 10/04/1983	
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FILING DATE: 06/01/1983 SERIAL NUMBER: 06499936 ECC 3202 ISSUE DATE: 08/19/1986 (PATENT NUMBER: D285248 FILING DATE: 04/29/1983 SERIAL NUMBER: 06489900 ECC 3246 ISSUE DATE: 09/10/1985 PATENT NUMBER: 4539998 26324 FILING DATE: 06/01/1983 SERIAL NUMBER: 06499938 ISSUE DATE: 04/02/1985 -PATENT NUMBER: 4508123 SERIAL NUMBER: 06551661 ECC 3248 FILING DATE: 11/14/1983 ISSUE DATE: 05/07/1985 PATENT NUMBER: 4515278 FILING DATE: 10/28/1983 SERIAL NUMBER: 06546492 ISSUE DATE: 03/03/1987 PATENT NUMBER: 4647149 ECC 3347 FILING DATE: 03/14/1989 SERIAL NUMBER: 07323054 PATENT NUMBER: 5007704 ECC 3348CON ISSUE DATE: 04/16/1991 V FILING DATE: 01/13/1984 SERIAL NUMBER: 06570619 ISSUE DATE: 01/10/1989 PATENT NUMBER: 4796640 ECC 3359 FILING DATE: 01/13/1984 SERIAL NUMBER: 06570632 ISSUE DATE: 06/17/1986 V PATENT NUMBER: 4595012 ECC 3360 FILING DATE: 01/13/1984 SERIAL NUMBER: 06570631 PATENT NUMBER: 4632125 ECC 3361 ISSUE DATE: 12/30/1986 FILING DATE: 05/01/1986 SERIAL NUMBER: 06858448 ISSUE DATE: 05/24/1988 \ PATENT NUMBER: 4745928 ECC 3361 A FILING DATE: 10/05/1984 SERIAL NUMBER: 06558111 ECC 3461 ISSUE DATE: 03/24/1987 PATENT NUMBER: 4651751 SERIAL NUMBER: 06945381 ECC 3421 COMPATENT NUMBER: 5193547 FILING DATE: 12/22/1986 ISSUE DATE: 03/16/1993 V FILING DATE: 09/17/1984 SERIAL NUMBER: 06651283 ECC 3474 ISSUE DATE: 05/20/1986 \ PATENT NUMBER: 4589287 FILING DATE: 10/11/1984 SERIAL NUMBER: 06659702 ISSUE DATE: 12/15/1987 PATENT NUMBER: 4713059 6003477 FILING DATE: 09/21/1987 PATENT NUMBER: 4850974 ECC 3477 DIV SERIAL NUMBER: 07099097 ISSUE DATE: 07/25/1989 \ FILING DATE: 12/27/1984 SERIAL NUMBER: 06686989 ECC 3482 ISSUE DATE: 02/17/1987 SERIAL NUMBER: 06622079 ECC 3534 PATENT NUMBER: 4564020 FILING DATE: 06/19/1984 , ISSUE DATE: 01/14/1986 FILING DATE: 11/13/1984 / ISSUE DATE: 05/13/1986 PATENT NUMBER: 4587974 ECC 3535 SERIAL NUMBER: 06670213

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SERIAL PATENT	NUMBER: NUMBER:	06739546 4651741	ECL 3574	FILING DATE: 05/30/1985 ISSUE DATE: 03/24/1987
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010901/0274 PAGE 12
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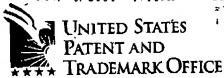
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DOC DATE: 09/13/2001

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DOC DATE: 09/13/2001

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9.	Statement and Signature:		
	To the best of my knowledge original document.	and belief, the foregoing informa	tion is true and correct and any attached copy is a true copy of the
	John Christopher James, 40, Name of Person Signing and	660	Date Date

Total Number of Pages Including Coversheet, Attachments and Document: 3

Docket No.: 5413 CIP2 Application No.: 69/847,930

Filed: 05/03/2001

ASSIGNMENT (Joint Inventors)

In consideration of one dollar (\$1.00) and other good and valuable considerations, the receipt and sufficiency whereof are hereby acknowledged, we hereby assign to EDWARDS LIFESCIENCES CORPORATION (hereinafter referred to as "assignee"), a corporation of Delaware, having a principal place of business at One Edwards Way, Irvine, California, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in our invention or improvements in https://documents/linearing-new-months/ in HOLDER FOR FLEXIBLE HEART VALVE, and the application for Letters Patent of the United States therefor, executed by each of us individually on the date(s) indicated below and any and all other United States applications and applications in any and all countries which we may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States or of any other country which may be obtained on any of said applications, and in any reissue, reexam or extension thereof.

We hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said EDWARDS LIFESCIENCES CORPORATION

We hereby authorize and request the attorneys of record in said application to insert in this Assignment the date and serial number of said application when officially known.

We warrant ourselves to be the owners of the interest herein assigned and to have the right to make this assignment; and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned.

For said consideration we hereby agree, upon the request and at the expense of said assignee, its successors, legal representatives and assigns, to execute any and all divisional, continuation, and C-I-P applications for said invention or improvements, and any necessary oath or supplemental oath or affidavit relating thereto, and any application for the reissue, reexam or extension of any Letters Patent that may be granted upon said application that said assignce, its successors, legal representatives and assigns may deem necessary or expedient. For said consideration we further agree, upon the request of said assignee, its successors, legal representatives and assigns, in the event of said application or any division, continuation, or C-I-P thereof, or Letters Patent issued thereon, or any reexam, reissue or application for the reissue thereof becoming involved in interference, to cooperate to the best of our ability with said assignee, its successors, legal representatives and assigns in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, we further agree to perform, upon such request, any and all affirmative acts to obtain Letters Patent, and vest all rights therein hereby conveyed in said assignee, its successors, legal representatives and assigns whereby said Letters Patent will be held and enjoyed by said assignee, its successors, legal representatives and assigns to the end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made, and for said considerations we hereby also assign to said assignee, its successors. legal representatives and assigns the entire rights, title and interest in said invention or improvements for any and all foreign countries and the right of priority for patent and utility model applications in all countries arising under any applicable international convention for the protection of industrial property and/or any internal priority legislation of such countries, and we further agree upon the request of said assignce, its successors, legal representatives and assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said assignee.

Date 9/13/01 Signature 5

State of California, County of Orange

on 9-13-01 before me, Swar Thomas, Notary Public, personally appeared Salvador Marquez, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official scal.

/bommet (Seal)

SARA J. KENNEDY
Commission # 1245606
Notary Public - California
Orange County
My Comm. Expres Dec 13, 2003

Date 9/13/ Signature 1

Typed Name:

Claudio Argento

State of California, County of OPLANCE

on 9-13 before me 500 Notary Public, personally appeared Claudio Argento, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Jane (Seal

SARA J. KENNEDY Commission # 1245606 Natary Public - California

Orange County
My Comm. Expires Dec 13, 2003

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ASSIGNMENT

(Joint Inventors)

Docket No.: 5413 CIP2 Application No.: 09/847,930

Filed: 05/03/2001

Richard S. Rhee

State of California, County of Orange

on 9-13-01 before me, Sara J Kenny, Notary Public, personally appeared Richard S. Rhee, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

